# FIGURE 1A - 1

101 ATCGCCTTCC TCAGCCTGAA GTCAGTGGAG CGCTCTGACG CCGGCCGGTA CTGGTGCCAG GTGGAGGATG GGGGTGAAAC CGAGATCTCC CAGCCAGTGT 501 CCCTGAACCT GTTACCATTG TCTGGTGGAG AGGACTACG AAGATCGGGG GACCCGCTCC CTCTCCATCT GTTTAAATG TAACAGGGGT GACCCAGAGC TCAGACCAAG GGTCTAGCCC CAGCCAGCGC TCCCCAAAAC CTCCATGCCA 1 CCGCCGATGG CGCTGAGGCG GAGCATGGGG CGGCCGGGGC TCCCGCCGCT GCGCTGCCG CCGCCACCGC GGCTCGGGCT GCTGCTGGCG GCTCTGGCTT 401 GECTCACGGT AGAAGGTGTG CCATTITICA CAGTGGAGCC AAAAGAICTG GCAGTGCCAAC CCAATGCCCC TITCCAACTG ICTTGTGAGG CTGTGGGTCC 601 ACCATGITIT CCIGIGAAGC ICACAACCIA AAAGGCCIGG CCICITCICG CÁCAGCCACI GIICACCITC AAGCACIGCC IGCAGCCCCC IICAACAICA 101 CCGTGACAAA GCTTTCCAGC AGCAACGCTA GTGTGGCCTG GATGCCAGGT GCTGATGGCC GAGCTCTGCT ACAGTCCTGT ACAGTTCAGG TGACAAGGC 101 TGTGGAGGGG ATGGAGGAGC CTGACATCCA GTGGGTGAAG GATGGGGCTG TGGTCCAGAA CTTGGACCAG TTGTACATCC CAGTCAGCGA GCAGCACTGG 801 CCCAGGAGGC TGGGAAGTCC TGGCTGTTGT GGTCCCTGTG CCCCCTTTA CCTGCCTGCT CCGGGACCTG GTGCCTGCCA CCAACTACAG CCTCAGGGTG .001 TCGGCACAGA TICAGGCCTC ATCTIGGAGT GGGAAGAAGT GALCCCCGAG GCCCCTTIGG AAGGCCCCCT GGGACCCTAC AAACIGICCT GGGTTCAAGA • A • A • A O A · E CTGGTGGTCT CTTCTCATGA CGGTGCAGGG CAGCAGGGCC CTCCTCACAG • S • A • A • 5 5 H M L L 5 5 901 CGCTGTGCCA ATGCCTTGGG GCCCTCTCCC TATGCTGACT GGGTGCCCTT • w X O L • O R S D A • X • D • X V T I V W W R • 12 • 12 .01 crcrecrecr cccggAGTCC • > • ७ 14 14 15 R C A N

TEGICCTIGG ICTGCIAACG GCCTGGTGA CGCTGCTGC CCTGGCCCTC ATCCTGCTTC GAAAGAGACG GAAAGAGACG CGGTTTGGGC AAGCCTTTGA

# FIGURE IA-2

1401 CAGTGTCATG GCCCGGGGAG AGCCAGCCGT TCACTTCCGG GCAGCCCGGT CCTTCAATCG AGAAAGGCCC GAGCGCATCG AGGCCACATT GGACAGCTTG K បា H æ ы 요 요 ы z z Œ, 8 K K H F R P A V ш ပ œ æ Σ ഗ

S01 GCCATCAGCG ATGAACTAAA GGAAAAACTG GAGGATGTGC TCATCCCAGA GCAGCAGTTC ACCCTGGGCC GGATGTTGG CAAAGGAGAG TTTGGTTCAG <u>ရ</u> M L G T G R 1 O O I P E EDVL В Х С × 3 1 н 9

1601 TGCGGGAGGC CCAGCTGAAG CAAGAGGATG GCTCCTTTGT GAAAGTGGCT GTGAAGATGC TGAAAGCTGA CATCATTGC TCAAGCGACA TTGAAGAGTT SSDI IIA SFVKVAVKMLKAD OEDG 0 7 8 A B æ

GCAGCTTGCA TGAAGGAGTT TGACCATCCA CACGTGGCCA AACTTGTTGG GGTAAGCCTC CGGAGCAGGG CTAAAGGCCG TCTCCCCATC J **∀** HVAKLVGVSLRSRA д н О AACMKEF ជា

.801 CCCATGGTCA TCTTGCCCTT CATGAAGCAT GGGACCTGC ATGCCTTCCT GCTCGCCTCC CGGATTGGGG AGAACCCCTT TAACCTACCC CTCCAGACCC o N L P ص ص z ធា ပ R I တ L A A F L G D L H . **=** × ĵ. p. J > ×

633 I R F M V D I A C G M E Y L S S R N F I H R D L A A R N C M L A E 1901 TGATCCGGTT CATGGTGGAC ATTGCCTGCG GCATGGAGTA CCTGACTTCA TCCACCGAGA CCTGGCTGCT CGGAATTGCA TGCTGGCAGA

2001 GGACATGACA GTGTGTGG CTGACTTCGG ACTCTCCCGG AAGATCTACA GTGGGGACTA CTATCGTCAA GGCTGTGCCT CCAAACTGCC TGTCAAGTGG × > 7 7 လ ح د ပ œ æ G D Y X I Y S L S R r G C < A</p> E Σ Ω

2101 CTGGCCCTGG AGAGCCTGGC CGACAACCTG TATACTGTGC AGAGTGACGT GTGGGCGTTC GGGGTGACCA TGTGGGAGAT CATGACACGT GGGCAGACGC ø Eы ы 3 G V T X A S D DNLYTVQ х П S L A

2201 CATATGCTGG CATCGAAAAC GCTGAGATTT ACAACTACCT CATTGGCGGG AACCGCCTGA AACAGCCTCC GGAGTGTATG GAGGACGTGT ATGATCTCAT E D V Y Σ U 0 P P A E I Y N Y L I G G N. R L K 733 Y A G I E N

2301 GTACCAGTGC TGGAGTGCTG ACCCCAAGCA GCGCCCGAGC TTTACTTGTC TGCGAATGGA ACTGGAGAAC ATCTTGGGCC AGCTGTCTGT L S V LENILGO Ŧ FTCLRME တ ۳ م ч ж W S A D ပ 766 Y Q

2401 AGCCAGGAC CCTTATACAT CAACATGGAG AGAGCTGAGG AGCCCACTGC GGGAGGCAGC CTGGAGCTAC CTGGCAGGGA TCAGCCCTAC AGTGGGGCTG v <u>۲</u> م 0 R D ပ L P 3 7 လ ပ TA o, ы ធា R H Z r x r

2501 GGGATGGCAG TGGCATGGGG GCAGTGGGTG GCACTCCCAG TGACTGTCGG TACATACTCA CCCCCGGAGG GCTGGCTGAG CAGCCAGGGC AGGCAGAGCA ဝ ပ a O GILAE S a. DCRYILT AVGGTPS ບ ສ S D Q

2601 CCAGCCAGAG AGTCCCCTCA ATGAGACACA GAGGCTTTTG CTGCTGCAGC AAGGGCTACT GCCACACAGT AGCTGTTAGC CCACAGGCAG AGGGCATCGG 0 U တ S .. .. ပ о О า ж 1 œ E-2 1 a 8

2101 GGCCATTTGG CCGGCTCTGG TGGCCACTGA GCTGGCTGAC TAAGCCCCGT CTGACCCCAG CCCAGACAGC AAGGTGTGGA GGCTCCTGTG GTAGTCCTCC

2801 CAAGCTGTGC TGGGAAGCCC GGACTGACCA AATCACCCAA TCCCAGTTCT TCCTGCAACC ACTCTGTGGC CAGCCTGGCA TCAGTTTAGG CCTTGGCTTG

# FIGURE 1A-3

3301 AGGCATGCTG GAGTACCCCAG CCTATCAGGT GCCCCTCTTC CAAAGGCAGC GTGCCGAGCC AGCAAGAGGA AGGGGTGCTG TGAGGCTTGC CCAGGAGCAA 3001 AGGGCAGGTC CAGCTCTGTG GGCCCTACCC TCCTGCTGAG CTGCCCTGC TGCTTAAGTG CATGCATTGA GCTGCCTCCA GCTGGTGGC CCAGCTATTA 3201 CICAGGICIG AAICITCACC AICITICIGA TICCGCACCC IGCCIACGCC AGGAGAAGIT GAGGGGAGCA IGCITCCCIG CAGCIGACCG GGICACACAA 3501 TGAGCCCAAC CCTTCTAAAC GGTGACCTTT AGTGCCAACT TCCCCTCTAA CTGGACAGCC TCTTCTGTCC CAAGTCTCCA GAGAGAAATC AGGCCTGATG 3101 CCACACTIGG GGITTAAATA TCCAGGIGIG CCCCTCCAAG TCACAAAGAG AIGTCCTIGT AATAITCCCT TITAGGIGAG GGITGGIAAG GGGITGGIAI 3401 GIGAGGCCGG AGAGGAGTIC AGGAACCCIT CICCATACCC ACAAICIGAG CACGCIACCA AAICICAAAA TAICCIAAGA CTAACAAAGG CAGCIGIGIC 2901 ATGGAAGTGG GCCAGTCCTG GTTGTCTGAA CCCAGGCAGC TGGCAGGAGT GGGTGGTTA TGTTTCCATG GTTACCATGG GTGTGGATGG CAGTGTGGGG 3601 AGGGGGAATT C

# FIGURE 18-1

GGGCTCCGG GETCTGCGGC CGCAGGCCTG AAGCTCATGG GCGCCCCAGT GAAGATGACC GTGTCTCAGG CATCTCCATC AGCGAGCACA GCTGGATTGG CTTACTCAGC CTAAAGTCAG TGGAGCGGTC TGATGCTGGC CTGTACTGGT GCCAGGTGAA GGATGGGGAG IGCCACCAAC TACAGCCTTA GGGTGCGCTG TGCCAATGCC TTGGGCCCTT CTCCCTACGG CGACTGGGTG CCTTTCAGA CAAAGGGCCT AGCGCCAGCC TGCCATTCGT ACCGACTCAG GCCTTATCCT GGAATGGGAA GAAGTGATTC CTGAAGACCC TGGGGAAGGC CCCCTAGGAC CACAGCCGCA CATCCTGGGT GCCTGTGGTC CTGGGCGTGC TCACCGCCCT GATCACAGCT GCTGCCTTGG CCCTCATCCT GCTTCGGAAG AGACGCAAGG GGCAGCCAGT GAAGCTCAAC TGCAGCGTGG AGGGGATGGA GGACCCTGAC ATCCACTGGA TGAAGGATGG CACCGTGGTC CAGAATGCAA GCCAGGTGTC CTTATAAGCT GTCCTGGGTC CAAGAAAATG GAACCCAGGA TGAGCTGATG GTGGAAGGGA CCAGGGCCAA TCTGACCGAC TGGGATCCCC AGAAGGACCT CCGCCTGCAG CTCCTTTCAA CACCACAGTA ACAACGATCT CCAGCTACAA CGCTAGCGTG GCCTGGGTGC CAGGTGCTGA CGGCCTAGCT CTGCTGCATT CCTGTACTGT ACAGGTGGCA CACGCCCCAG GAGAATGGGA GGCCCTTGCT GTTGTGGTTC CTGTGCCACC TTTACCTGC CTGCTTCGGA ACTTGGCCCC CATGACCATG CAGGGAGGCA GGGCCCTCCC œ GAAACCAAGA TCTCTCAGTC AGTATGGCTC ACTGTCGAAG GTGTGCCATT CTTCACAGTG GAACCAAAAG ATCTGGCGGT GCCACCCAAT AAATGTGACA GGAGTGACCC AGCGCACAGA GTTTTCTTGT GAAGCCCGCA ACATAAAAG CCTGGCCACT TCCCGACCAG CCATTGTTCG CCTCCGCCAC CCTCCTCTCA GCGCTCGCGG GCCGGGCCCG GCATGGTGCG CGTCGCCGCC GATGGCGCTG AGGCGGAGCA TGGGGTGGCC v PFOT SRPA • Q X S • • E GGTCCTCCAG AACCCGTAAC CATTTACTGG TGGAGGAC TCACTAAGGT TGGGGGACCT J L A V G G P RAN LTD • u H • L Y Ω H • • • B & C • B • X GATTTTGCGT GTGTGCCT CCAATGCAAT TGGTGATGGG CCCTGGAGTC AGCCACTGGT GGTGTCTTCT • A • A • A • > • % AALA • • d • I • D • D A G T X V • L A T • • • > IYWWRGL V V P • 0 • × • a G T • 0 M H N W • > • & E R S • 2 I H W M • • E F T V A G L ITA • • • • • • ¤ LKSV EARN • X • X • V የ TAL SAA • D P D A L A • • I G L L P G CTGCTCCCCG v w L T V E G • S H E W • D • G LGVL • • 0 • 0 • T Q D L LS • F S C P V A N • • • H A P G GCCTTCTCTG • M II • GPPE ΛΛď A S L • TGAGGCTGTG AGAGCTCCTC AGAATTTCCA CCCCTCCTCC TGCCGGGACT • X • X 7 0 Y N N ۷ > • AGCTGTCTTG > E-U 101 48 201 301 114 148 501 181 601 214 701 248 801 281 901 314 1001 348 1101 381 201 414 1301 81

AGACGCGTTT CGGGCAAGCC TTTGACAGTG TCATGGCCCG AGGGAGCCA GCTGTACACT TCCGGGCAGC CCGATCTTTC AATCGAGAAA GGCCTGAACG

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# FIGURE 18-2

CATTGAGGCC ACATTGGATA GCCTGGGCAT CAGCGATGAA TTGAAGGAAA AGCTGGAGGA TGTCCTCATT CCAGAGCAGC AGTTCACCCT CGGTCGGATG ပ .. + 4 & o 9 9 V L I LKEK LED ы Ω တ 1 0 1 TLDS

TIGGGCAAAG GAGAGTITIGG ATCAGIGCGG GAAGCCCAGC TAAAGCAGGA AGATGGCTCC TTCGTGAAAG TGGCAGTGAA GATGCTGAAA GCTGACATCA Ω X L SFVKVAVK <u>ပ</u> EAQLKQE SVR E F G L G K G 1601

TTGCCTCAAG CGACATAGAA GTGTTCCTCC GGGAAGCAGC TTGCATGAAG GAGTTTGACC ATCCACACGT GGCCAAGCTT GTTGGGGTGA GCCTCCGGAG u SASA A K L CMKEFDHPHV EFLREAA D I 1701

CAGGGCTAAA GGTCGTCTCC CCATTCCCAT GGTCATCCTG CCCTTCATGA AACATGGAGA CTTGCACGCC TTTCTGCTCG CCTCCCGAAT CGGGGAGAAC ы ပ S LHAFLLA <u>م</u> VILPFMKH GRLPIPM RAK 1801

CCTTTTAACC TGCCCTGCA GACCCTGGTC CGGTTCATGG TGGACATTGC CTGTGGCATG GAGTACCTGA GCTCCGGGAA CTTCATCCAC CGAGACCTAG H H CGMEYLSSRN RFMVDIA T L v 0 ٦ د. 7 2 2 1901

CAGCTCGGAA TIGCAIGCIG GCCGAGGACA IGACAGIGIG IGIGGCIGAI TITGGACICI CICGGAAAAI CIATAGCGGG GACTAITAIC GICAGGGCIG 0 D Y Y R VAD FGLS RKI YSG AEDMTVC E E A R N 2001 648

TGCCTCCAAA TIGCCCGTCA AGIGGCTGGC CCIGGAGAGC TIGGCIGACA ACTIGIATAC IGIACACAGI GAIGIGIGG CCTICGGGGI GACCAIGIGG H DVWAFGV V H S LADNLYT . เม А 13 3 LPVK 2101

GAGATCATGA CTCGTGGGCA GACGCCATAT GCTGGCATTG AAAATGCTGA GATTTACAAC TACCTCATCG GCGGGAACCG CCTGAAGCAG CCTCCGGAGT 73 74 z v IYNYLIG N A E A G I E T P ø დ ლ E I X 2201

GCATGGAGGA AGTGTATGAT CTCATGTACC AGTGCTGGAG CGCCGACCCC AAGCAGCGCC CAAGCTTCAC GTGTCTGCGA ATGGAACTGG AGAACATTCT H Z Σ Ω Ω က ၂၁ ۳ S F T K Q R P A D P S S LMYQ Ω ⊁ > 2301

GGGCCACCTG TCTGTGCTGT CCACCAGCCA GGACCCCTTG TACATCAACA TTGAGAGAGC TGAGCAGCCT ACTGAGAGTG GCAGCCCTGA GCTGCACTGT × S P E ပ T E S е О E R INIX 1 a 0 o s S SINS 2401 781

GGAGAGCGAT CCAGCAGGCGA GCCAGGGGAC GGCAGTGGCG TGGGGGCAGT AGGTGGCATC CCCAGTGACT CTCGGTACAT CTTCAGCCCC GGAGGGCTAT ပ ပ ۵. ri S X æ တ S 4 I D D > & O 0 S G V A G D ш S 2501 814

CCGAGTCACC AGGGCAGCTG GAGCAGCAGC CAGAAAGCCC CCTCAATGAG AACCAGAGGC TGTTGTTGCT GCAGCAAGGG CTACTGCCTC ACAGTAGCTG י ני ני 0 NORLLLL L N E S E 0 0 .. O က လ 2601 848

TIAACCCICA GCAGAGGAA AGITGGGGCC CCTGGCICTG CTGACCGCTG CGCTGCCTGA CTAGGCCCAG TCTGATCACA GCCCAGGCAG CAAGGTATGG 2701 881

AGGCTCCTGT GGTAGCCCTC CCAAGCTGTG TGGCGCCTGG ACGGACCAAA TTGCCCAATC CCAGTTCTTC CTGCAGCCGC TCTGGCCAGC CTGGCATCAG PYCAGGCCTT GGCTTAGAGG AGGTGAGCCA GAGCTGGTTG CCTGAATGCA GGCAGCTGGC AGGAGGGGAG GGTGGCTATG TTTCCATGGG TACCATGGGT 2801

GTGGATGGCA GTAAGGAAG GTAGCAACAG CCTGTGGGCC CCTACCCTCC TGGCTGAGCT GCTCCTACTT TAGTGCATGC TTGGAGCCGC CTGCAGCCTG 3001 GAACTCAGCA CTGCCCACCA CACTTGGGCC GAAATGCCAG GTTTGCCCCT CTTAAGTCAC AAAGAGATGT CCATGTATTG TTCCCTTTTA GGTGATGATT 3101

# FIGURE 18-3

GAGGTGCTAA GGGGCTGGCC CAGGAGTCAG GCATTTCAGG ACCCCTCCAA GCTTCTACAG TCTGTCTGAG CATGCTACCA AGCCCCCAGA TACCCCAAAA CTAACAGAGG CAGTITIGIC IGAGCCCAGC CCTCCCACAT GAIGACCCIT AGGICTACCC TCCTCTAA AIGGACATCC TCGTITGICC CAAGICTCCA GAGAGACTAC TGATGGCTGA TGTGGGTAAG AAAAGTTCCA GGAACCAGGG CTGGGGTGGA ACCAGGGCTG GGTCGAGGC AGGCTCTTGG GCAGGCTCTT 3201 AGGAAGGGAT TGGCACACTT GGGTCCCTAA GCCCTATGGC AGGAAATGGT GGGATATTCT CAGGTCTGAA TCCTCATCAT CTTCCTGATT CCCCACCTG 3301 CAAAGGCCTG GAACTGGCTG TGGGGCTCTG ACGCATGCTG AAGGACAAAA GGTTACAGAG ATCCGACTTC AAAAGGCAGG GTCTGAGTCT GGCAGGTGGA GCTGTTAGGA ACATTTCTAA GCTATTAAGT TGCTGTTTCA AAACAAATAA AATTGAAACA TAAAGAATCA AAAAAAAAA AAAAA

## FIGURE 2 -1

1	GAATTCTCGA	GTCGACGTTG	GACTTGAAGG	AATGCCAAGA	GATGCTGCCC
51 1	CCACCCCTT	AGGCCCGAGG	GATCAGGAGC	TATGGGACCA MetGlyPro	GAGGCCCTGT GluAlaLeuSer
101	SerLeuLe	GCTGCTGCTC uLeuLeuLeu	LeuValAlaS	erGlyAspAl	TGACATGAAG aAspMetLys
151 24	GGACATTTTG GlyHisPheA	ATCCTGCCAA spProAlaLy	GTGCCGCTAT 8Cy8ArgTyr	GCCCTGGGCA AlaLeuGlyM	TGCAGGACCG etGlnAspArg
201 41	GACCATCCCA ThrilePro	GACAGTGACA AspSerAspI	TCTCTGCTTC leserAlase	CAGCTCCTGG rSerSerTrp	TCAGATTCCA SerAspSerThr
251 58	CTGCCGCCCG AlaAlaAr	CCACAGCAGG gHisSerArg	TTGGAGAGCA LeuGluSerS	GTGACGGGGA erAspGlyAs	TGGGGCCTGG pGlyAlaTrp
301 74	TGCCCCGCAG CysProAlaG	GGTCGGTGTT lySerValPh	TCCCAAGGAG eProLysGlu	GAGGAGTACT GluGluTyrL	TGCAGGTGGA euGlnValAsp
351 91	TCTACAACGA LeuGlnArg	CTGCACCTGG LeuHisLeuV	TGGCTCTGGT alAlaLeuVa	GGGCACCCAG 1GlyThrGln	GGACGGCATG GlyArgHisAla
108	GlyGlyLe	GGGCAAGGAG uGlyLysGlu	PheSerArgS	erTyrArgLe	uArgTyrSer
124	ArgAspGlyA		tGlyTrpLys	AspArgTrpG	lyGlnGluVal
141	IleSerGly		roGluGlyVa	lValLeuLys	AspLeuGlyPro
158	ProMetVa	TGCCCGACTG lalaArgLeu	ValArgPheT	yrProArgAl	aAspArgVal
174	MetSerValC	ysLeuArgVa	1GluLeuTyr	GlyCysLeuT	GGAGGGATGG rpArgAspGly
191	LeuLeuSer		roValGlyG1	nThrMetTyr	LeuSerGluAla
208	ValTyrLe	uAsnAspSer	ThrTyrAspG	lyHisThrVa	GGGCGGACTG 1GlyGlyLeu
224	GlnTyrGlyG	lyLeuGlyGl	nLeuAlaAsp	GlyValValG	GGCTGGATGA lyLeuAspAsp GACTATGTGG
241	PheArgLys	SerGlnGluL	euArgValTr	pProGlyTyr	AspTyrValGly
851 258	GATGGAGCAA TrpSerAs	nHisSerPhe	SerSerGlyT	yrValGluMe	GGAGTTTGAG tGluPheGlu

### FIGURE 2-2

			CCAGGCTATG eGlnAlaMet		GTAACAACAT ysAsnAsnMet
951 291			TGCCTGGCGG euProGlyGl		CGCTTCCGGC ArgPheArgArg
1001 308			GAGGGGGAGC GluGlyGluP		
					CCCTTGGCGG roleuGlyGly
			AGTGCCGCTT lnCysArgPh		GGGCCCTGGT GlyProTrpLeu
1151 358			TTCATCTCTG PhelleSerA		
			CCCGCCAGCC eProProAla		CGCCTGGCCC roProGlyPro
1251 391	ACCTCCCACC ProProThr	AACTTCAGCA AsnPheSerS	GCTTGGAGCT erLeuGluLe	GGAGCCCAGA uGluProArg	GGCCAGCAGC GlyGlnGlnPro
1301 408	CCGTGGCCAA ValAlaLy	GCCCGAGGGG sProGluGly	AGCCCGACCG SerProThrA	CCATCCTCAT la IleLeuIl	CGGCTGCCTG eGlyCysLeu
			GCTGCTCATC uLeuLeuIle		TGCTCTGGCG etLeuTrpArg
1401 441	GCTGCACTGG	CGCAGGCTCC	TCAGCAAGGC	TGAACGGAGG	GTGTTGGAAG
447	LeuHisTrp				ValLeuGluGlu
	AGGAGCTGAC	ArgArgLeuL GGTTCACCTC		aGluArgArg GGGACACTAT	ValLeuGluGlu CCTCATCAAC
1451 458 1501	AGGAGCTGAC GluLeuTh	ArgArgLeuL GGTTCACCTC rValHisLeu GTCCTAGAGA	euSerLysAl TCTGTCCCTG SerValProG GCCACCCCG	aGluArgArg GGGACACTAT lyAspThrll TACCAGGAGC	ValLeuGluGlu CCTCATCAAC eLeuIleAsn
1451 458 1501 474 1551	AGGAGCTGAC GluLeuTh AACCGCCCAG AsnArgProG	ArgArgLeuL GGTTCACCTC rValHisLeu GTCCTAGAGA lyProArgGl CCCCACTCCG	euSerLysAl TCTGTCCCTG SerValProG GCCACCCCG uProProPro CTCCCTGTGT	aGluArgArg GGGACACTAT lyAspThrIl TACCAGGAGC TyrGlnGluP CCCCAATGGC	ValLeuGluGlu CCTCATCAAC eLeuIleAsn CCCGGCCTCG roArgProArg
1451 458 1501 474 1551 491	AGGAGCTGAC GluLeuTh AACCGCCCAG ASNATGPTOG TGGGAATCCG GlyASNPTO	ArgArgLeuL GGTTCACCTC rValHisLeu GTCCTAGAGA lyProArgGl CCCCACTCCG ProHisSerA TCCAGCCTAC	euSerLysAl TCTGTCCCTG SerValProG GCCACCCCG uProProPro CTCCCTGTGT	aGluArgArg GGGACACTAT lyAspThrIl TACCAGGAGC TyrGlnGluP CCCCAATGGC lProAsnGly TGGCCACTTA	ValLeuGluGlu CCTCATCAAC eLeuIleAsn CCCGGCCTCG roArgProArg TCTGCGTTGC SerAlaLeuLeu CGCCCGTCCC
1451 458 1501 474 1551 491 1601 508	AGGAGCTGAC GluLeuTh  AACCGCCCAG ASNATGPTOG  TGGGAATCCG GlyASnPTO  TGCTCTCCAA LeuSerAs  CCTCGAGGCC	ArgArgLeuL GGTTCACCTC rValHisLeu GTCCTAGAGA lyProArgG1 CCCCACTCCG ProHisSerA TCCAGCCTAC nProAlaTyr CGGGCCCCC	euSerLysAl TCTGTCCCTG SerValProG GCCACCCCG uProProPro CTCCCTGTGT laProCysVa CGCCTCCTTC ArgLeuLeuL CACACCCGCC	aGluArgArg GGGACACTAT lyAspThrIl TACCAGGAGC TyrGlnGluP CCCCAATGGC lProAsnGly TGGCCACTTA euAlaThrTy TGGGCCAAAC	ValLeuGluGlu CCTCATCAAC eLeuIleAsn CCCGGCCTCG roArgProArg TCTGCGTTGC SerAlaLeuLeu CGCCCGTCCC
1451 458 1501 474 1551 491 1601 508 1651 524	AGGAGCTGAC GluLeuTh  AACCGCCCAG AsnArgProG  TGGGAATCCG GlyAsnPro  TGCTCTCCAA LeuSerAs  CCTCGAGGCC ProArgGlyP	ArgArgLeuL GGTTCACCTC rValHisLeu GTCCTAGAGA lyProArgGl CCCCACTCCG ProHisSerA TCCAGCCTAC nProAlaTyr CGGGCCCCCC roGlyProPr AGTGGGGACT	euSerLysAl TCTGTCCCTG SerValProG GCCACCCCG uProProPro CTCCCTGTGT laProCysVa CGCCTCCTTC ArgLeuLeuL CACACCCGCC oThrProAla ATATGGAGCC	aGluArgArg GGGACACTAT lyAspThrIl TACCAGGAGC TyrGlnGluP CCCCAATGGC lProAsnGly TGGCCACTTA euAlaThrTy TGGGCCAAAC TrpAlaLysP TGAGAAGCCA	ValLeuGluGlu CCTCATCAAC eLeuIleAsn CCCGGCCTCG roArgProArg TCTGCGTTGC SerAlaLeuLeu CGCCCGTCCC rAlaArgPro CCACCAACAC roThrAsnThr

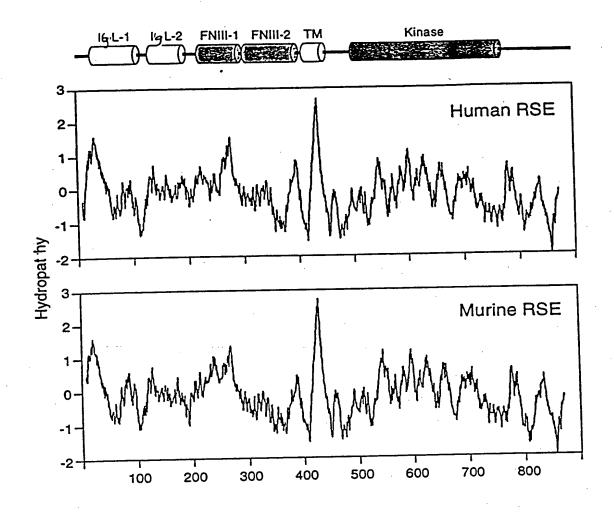
#### FIGURE 2-3

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1801 ATTGTTACCC TGCAGGGCGT CACCGGGGGC AACACCTATG CTGTGCCTGC
 574 IleValThrL euGlnGlyVa lThrGlyGly AsnThrTyrA laValProAla
1851 ACTGCCCCCA GGGGCAGTCG GGGATGGGCC CCCCAGAGTG GATTTCCCTC
 591 LeuProPro GlyAlaValG lyAspGlyPr oProArgVal AspPheProArg
1901 GATCTCGACT CCGCTTCAAG GAGAAGCTTG GCGAGGGCCA GTTTGGGGAG
       SerArgLe uArgPheLys GluLysLeuG lyGluGlyGl nPheGlyGlu
1951 GTGCACCTGT GTGAGGTCGA CAGCCCTCAA GATCTGGTCA GTCTTGATTT
 624 ValHisLeuC ysGluValAs pSerProGln AspLeuValS erLeuAspPhe
2001 CCCCCTTAAT GTGCGTAAGG GACACCCTTT GCTGGTAGCT GTCAAGATCT
 641 ProLeuAsn ValArgLysG lyHisProLe uLeuValAla ValLysIleLeu
2051 TACGGCCAGA TGCCACCAAG AATGCCAGGA ATGATTTCCT GAAAGAGGTG
       ArgProAs pAlaThrLys AsnAlaArgA snAspPheLe uLysGluVal
2101 AAGATCATGT CGAGGCTCAA GGACCCAAAC ATCATTCGGC TGCTGGGCGT
 674 LysIleMetS erArgLeuLy sAspProAsn IleIleArgL euLeuGlyVal
2151 GTGTGTGCAG GACGACCCCC TCTGCATGAT TACTGACTAC ATGGAGAACG
691 CysValGln AspAspProL euCysMetIl eThrAspTyr MetGluAsnGly
2201 GCGACCTCAA CCAGTTCCTC AGTGCCCACC AGCTGGAGGA CAAGGCAGCC 708 AspleuAs nGlnPheleu SerAlaHisG lnLeuGluAs pLysAlaAla
2251 GAGGGGGCCC CTGGGGACGG GCAGGCTGCG CAGGGGCCCA CCATCAGCTA
 724 GluGlyAlaP roGlyAspGl yGlnAlaAla GlnGlyProT hrIleSerTyr
2301 CCCAATGCTG CTGCATGTGG CAGCCCAGAT CGCCTCCGGC ATGCGCTATC
 741 ProMetLeu LeuHisValA laAlaGlnIl eAlaSerGly MetArgTyrLeu
2351 TGGCCACACT CAACTTTGTA CATCGGGACC TGGCCACGCG GAACTGCCTA
       AlaThrLe uAsnPheVal HisArgAspL euAlaThrAr gAsnCysLeu
2401 GTTGGGGAAA ATTTCACCAT CAAAATCGCA GACTTTGGCA TGAGCCGGAA
 774 ValGlyGluA snPheThrIl eLysIleAla AspPheGlyM etSerArgAsn
2451 CCTCTATGCT GGGGACTATT ACCGTGTGCA GGGCCGGGCA GTGCTGCCCA
 791 LeuTyrAla GlyAspTyrT yrArgValGl nGlyArgAla ValLeuProIle
2501 TCCGCTGGAT GGCCTGGGAG TGCATCCTCA TGGGGAAGTT CACGACTGCG
       ArgTrpMe tAlaTrpGlu CysIleLeuM etGlyLysPh eThrThrAla
2551 AGTGACGTGT GGGCCTTTGG TGTGACCCTG TGGGAGGTGC TGATGCTCTG
 824 SerAspValT rpAlaPheGl yValThrLeu TrpGluValL euMetLeuCys
2601 TAGGGCCCAG CCCTTTGGGC AGCTCACCGA CGAGCAGGTC ATCGAGAACG
 841 ArgAlaGln ProPheGlyG lnLeuThrAs pGluGlnVal IleGluAsnAla
```

### FIGURE 2-4

	2651 858				AGGTGTACCT lnValTyrLe	
		CCTGCCTGCC ProAlaCysP				GCTGGAGCCG ysTrpSerArg
		GGAGTCTGAG GluSerGlu				TTCCTGGCAG PheLeuAlaGlu >>>
•	2801 908	AGGATGCACT AspAlaLe	CAACACGGTG uAsnThrVal	TGAATCACAC	ATCCAGCTGC	CCCTCCCTCA
	2851	GGGAGTGATC	CAGGGGAAGC	CAGTGACACT	AAAACAAGAG	GACACAATGG
	2901	CACCTCTGCC	CTTCCCCTCC	CGACAGCCCA	TCACCTCTAA	TAGAGGCAGT
	2951	GAGACTGCAG	AAGCCCCTGT	CGCCCACCCA	GCTGGTCCTG	TGGATGGGAT
	3001	CCTCTCCACC	CTCCTCTAGC	CATCCCTTGG	GGAAGGGTGG	GGAGAAATAT
	3051	AGGATAGACA	CTGGACATGG	CCCATTGGAG	CACCTGGGCC	CCACTGGACA
	3101	ACACTGATTC	CTGGAGAGGT	GGCTGCGCCC	CCAGCTTCTC	TCTCCCTGTC
	3151	ACACACTGGA	CCCCACTGGC	TGAGAATCTG	GGGGTGAGGA	GGACAAGAAG
	3201	GAGAGGAAAA	TGTTTCCTTG	TGCCTGCTCC	TGTACTTGTC	CTCAGCTTGG
	3251	GCTTCTTCCT	CCTCCATCAC	CTGAAACACT	GGACCTGGGG	GTAGCCCCGC
	3301	CCCAGCCCTC	AGTCACCCCC	ACTTCCCACC	TGCAGTCTTG	TAGCTAGAAC
	3351	TTCTCTAAGC	CTATACGTTT	CTGTGGAGTA	AATATTGGGA	TTGGGGGGAA
	3401	AGAGGGAGCA	ACGGCCCATA	GCCTTGGGGT	TGGACATCTC	TAGTGTAGCT
	3451	GCCACATTGA	TTTTTCTATA	ATCACTTGGG	GTTTGTACAT	TTTTGGGGG
	3501	AGAGACACAG	ATTTTTACAC	TAATATATGG	ACCTAGCTTG	AGGCAATTTT
	3551	AATCCCCTGC	ACTAGGCAGG	TAATAATAAA	GGTTGAGTTT	TCCACAAAAA
	3601	מממממממממ	ממממממממ	מבמבמבמב	ממממממ	

### FIGURE 3

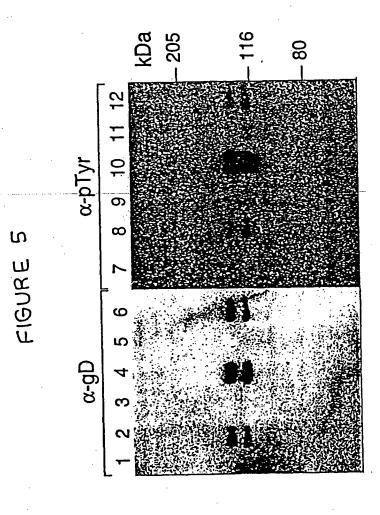


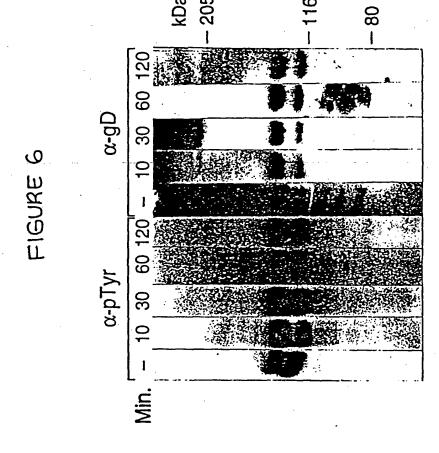
### FIGURE 4-1

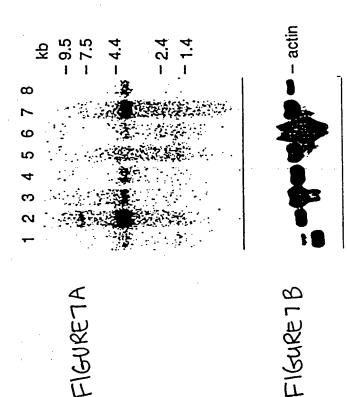
	Signal Sequence
hRSE mRSE	1 MALR-RSMGRPGLPPLPLPPPPRLGLLLAALASLLLPESAAA-GLKLHGA 1 MALR-RSMGHPGLRPLLLAGLASLLLPGSAAA-GLKLHGA
hAXL mAXL	1 MANKUPKIN DIKYPILIA WCILIAILIC GWACHAPRGTOAF - F c pie vielui
IIIAAL	1 MGR V PLA WLALC C M G C A A H K D T O T E A G S P F V G N
	# Ig-like Domain-1 #
hRSE mRSE	49 PVKLTVSOGOPVKLNCSVEGM-EEPDIOWVKDGAVVONLDOLYIPVSE 39 PVKMTVSOGOPVKLNCSVEGM-EDPDIHWMKDGTVVONASOVSISISE
hAXL	41 PG N I TG A RGL T G T L R C Q L Q V Q G E P P E V H W L R D G Q I L E L A D S T Q T Q V P L G E
mAXL	35 PGNITGARGLTGTLRCELOVOGEPPEVVWLRDGOILELADNTOTOVPLGE
	*
hRSE	96 O HWI GE US I K S V E RE DIAGRETINE DO CE SITE TE OR V V I T VIE COVIDE
mRSE	861 H SIVII G L ILIS L K S V E RIS DIAIGII IVIVICIOIVIK D G F FIITIK TIS OIS V W I T VIE CIVIDIE
hAXL mAXL	91 D E Q D D W I V V S O L R I T S L O L S D T G O Y O C L V F L G H O T F V S Q P G Y V G L E G L P Y B S D W Q D E W K V V S O L R I S A L O L S D A G E Y O C M V H L E G R T F V S O P G F V G L E G L P Y
III/OCE	
<b>LD05</b>	# Ig-like Domain-2 #
hRSE .mRSE	141 FT VEPKDLAVPPNAPFOLSCEAVGPPEPVTIVWHRGTTKIG-GPAPSP-S 131 FT VEPKDLAVPPNAPFOLSCEAVGPPEPVTIYWHRGLTKVG-GPAPSP-S
hAXL	141 III LEE PIEIUK IIVIA AINI I IP FINIL S CIQIAIQIG PPEPVID LLIWIL QDAVPLATAPGHGPORI
mAXL	135 FLEEPEDKAVPANTPFNLSCOAOGPPEPVTLLWLODAVPLAPYTGHSSOH
	FN Type III Domain
hRSE	189 VINVTGVTOSTMFSCEAHNILKGLASSRIATVHLOAIPAAPENTTVTKISS
mRSE	179   VILIN V TIGIV TORTELFS CE AIRINII IK GILATIS RIPIALI VRI O AIPIPIA AIPIFNTT VTTTES
hAXL mAXL	191 S L H V P G L N K T S S F S C E A H N A K G V T T S R T A T I T V L P O Q P R N L H L V S R Q P 185 S L Q T P G L N K T S S F S C E A H N A K G V T T S R T A T I T V L P O R P H H L H V V S R Q P
	TOS SERVICE IN LOCK CENTIMAKO A LIGHTINA - TELOKENHEN A A 2 KO b
hRSE	239 S N A S V A HIMP GA DGR A LLIQ SCIT VQV T Q A P G G H E V LLA V V V P
mRSE	229 Y N A SIV A WIVIP GIA DIGIL A LILIH SICIT VIOIV A H A P G F W F A I I A V V P
hAXL	239 TELEIVA WITIP GILSIGII Y PILIT HICIT LIQIA V LS DDGMG TO A G F P D P P F F PILIT S D A S
mAXL	233 TELEVANTPGLSGIYPLTHCNLOAVLSDDGVGINLGKSDPPEDPLTLQVS
	FN Type III Domain
'hRSE	278 VPPFTCLLRDLVPATNYSTRVRTANAIGPSPVADUVDEOTYCLADA CADA
mRSE hAXL	268 V P P F T C L L R N L A P A T N Y S L R V R C A N A L G P S P Y G D W V P F O T K G L A P A R A P O 289 V P P H O L R L G S L H P H T P Y H I R V A C T S S O G P S S W T H W L P V E T P E G V P L G P P E
mAXL	283 V P PH O L RLE KLLPHTPYH IRI SCS S S OG P SP W T HWLPV ETT E G V PL G P PE
hRSE	328 NIL HAIRT DSG LIL EWEERVIPE APLEGPLIG PYKLS WVODNGTIODELT VEGT
mRSE	328 NILHAIRT DSGLILEWEEVIPE APLEGPLGPYKLSWVODNGTODELTVEGT 318 NFHAIRT DSGLILEWEEVIPE DPGEGPLGPYKLSWVOENGTODELHVEGT
hAXL mAXL	339 NI SATRN GSOAF V HWOEPRAPLOGILL GYRLAY-QGODTPEVLM DIGL 333 NV SAMRN GSOVL V RWOEPR VPL QGILL GYRLAY-R GODTPEVLM DIGL
MAXL	333 WA 2 WUKU 6 20 A F A KM 6 G LLK ALL OP LETE GAKETY A - K C O DAL E AFTH D I C
hRSE	378 RANLT - GMDPOKDLI - VRVICVS NAVGICGPWSOPLVV SSHDRAGO
mRSE	378 RANLT - DWDPOKDLI - V RVC V S N A V G C G PW S O PL V V S S H D R A G O
hAXL	386 ROEVITILELOGDGS V S N L TIVIC V A A Y T A A IGIDIG P W SILIPIV P I F A W R PIC O A O P V H
mAXL	380 TREVILELRGDRPVANLTVSVTAYTSAGDGPWSLPVPLEPWRPGQGQPLH
	Transmembrane Domain
hRSE	420 O GPP H S R T S W V P V V L G V L TAL V T A A A L A L I L L R KR R K E T R F G O A F
mRSE	410 Q GIPIPHSRTISHIV PIVIVIL GIVL TIALL I TAAAILA LITILIL RYIDIDIK ET DIEICIO AIEI
hAXL mAXL	436 OLVKEPSTPAFSWPWWYVLLGAVVAAACVLILALFLVHRRKKETRYGEVF 430 HLVSEPPPRAFSWPWWYVLLGALVAAACVLILALFLVHRRKKETRYGEVF
	130 c . c . c

#### PIGURE 4-2

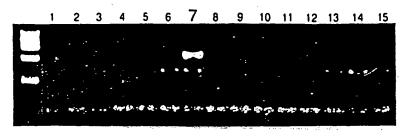
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465 DSVMARGEPAVHFRAARSFNRERPERIEATLDSLGISDELKEKLEDVLIP
455 DSVMARGEPAVHFRAARSFNRERPERIEATLDSLGISDELKEKLEDVLIP
486 EPTVERGELVVRYRVRKSYSR---RTTEATLNSLGISEELKEKLRDVMVD
hASE
mRSE
hAXL
mAXL
           480 EPT VERGEL VVRYRVRKSYSR - - - RTTEATLNS LGISEELKEK LRD VM VD
                                                       Tyrosine Kinase Domain
          515 E O Q F T L G R M L G K G E F G S V R E A Q L K Q E D G S F V K V A V K M L K A D I I A S S D I E E
505 E O Q F T L G R M L G K G E F G S V R E A Q L K Q E D G S F V K V A V K M L K A D I I A S S D I E V
533 R H K V A L G K T L G E G E F G A V M E G Q L N Q D D - S I L K V A V K T M K I A I C T R S E L E D
HRSE
mRSE
hAXL
mAXL
           527 RHKVALGKTLGEGEFGAVMEGOLINODD-SILKVAVKTMKIAICTRSELED
          565 F L REAACM KEFDHPHVA KLVGVS LRSRAKGRLPIPMVILPFM KHGDLHAF
555 F L REAACM KEFDHPHVA KLVGVS LRSRAKGRLPIPMV I LPFM KHGDLHAF
582 F L SEAV CM KEFDHPNVM RLIGVC F O G S E R E S F PAPVV I L P F M KHGDLHS F
hRSE
mRSE
hAXL
           576 FLISEAVCMKEFDHPNVMRLIIG VCFOGSDREGFPEPVVILPFMKHGDLHSF
mAXL
          615 L L A S R I G E N P F N L P L Q T L I R F H V D I A C G M E Y L S S R N F I H R D L A A R N C M L A 605 L L A S R I G E N P F N L P L Q T L V R F H V D I A C G M E Y L S S R N F I H R D L A A R N C M L A 632 L L Y S R L G D Q P V Y L P T Q M L V K F M A D I A S G M E Y L S T K R F I H R D L A A R N C M L N
hRSE
mRSE
hAXL
           626 LLYS RILGID OPV FLPTOMLV KFHADIAS GMEYLS TKRFIHRDLAARN CMLH
mAXL
          665 EDMIVCVADFGLSRKIYSGDYYRQGCASKLPVKWLALESLADNLYTVQSD
655 EDMIVCVADFGLSRKIYSGDYYRQGCASKLPVKWLALESLADNLYTVHSD
682 ENMSVCVADFGLSKKIYNGDYYRQGRIAKMPVKWIAIESLADRVYTSKSD
hRSE
mRSE
hAXL
           676 ENNMSVCVADFGLSKKIYNGDYYROGRIAKMPVKWILALIESLA DRVYTISKSD
mAXL
          715 V W A F G V T M W E I M T R G Q T P Y A G I E N A E I Y N Y L I G G N R L K Q P P E C M E D V Y D L 705 V W A F G V T M W E I M T R G Q T P Y A G I E N A E I Y N Y L I G G N R L K Q P P E C M E E V Y D L 732 V W S F G V T M W E I A T R G Q T P Y P G Y E N S E I Y D Y L R Q G N R L K Q P A D C L D G L Y A L
hRSE
mRSE
hAXL
           726 V W S F G V T M W E I A T R G O T P Y P G V E N S E I Y D Y L R O G N R L K O P V D F L D G L Y S L I
mAXL
hRSE
           765 MY QC WS A DPK QR PS FT CL RM ELENILLG QLS V LS A S Q D PL YINI ER A E E P T
          755 MY OC WS A DPK ORPS FT CLRM ELENILIGHLS V LS TS OD PLYIN I ERA E OPT 782 MS RC WELNPODRPS FT ELREDLENTLKALPPAOEPDEILYVNM DEGGGYP
mRSE
hAXL
mAXL
           776 MS RC WELN PROPRES FAEL REDILENTILK ALIPPAQEPDEIL YVINIM DEGGSHL
           815 AGGSLELPGRDOPYSGAGDGSGMGAVGGTPSDCRYJILTPGGLAEOPGOAE
hRSE
           805 ESGSPELHCGERSSSEAG|D|GSGVGAVGGIPSDS|RY|IFS|P|GGLSES|P|GQLE
mBSE
           832 EPPGAAGGADPPTQPDPKDSCSCLTAAEVHPAGRYVLCPST - TPSPAQPA
hAXL
           826 EPRGAAGGADPPTOPDPKDSCSCLTAADVHSAGRYVLCPST - APGPTLSA
mAXL
hRSE
           865 HOPESPLNETORLLLOOGLLPHSSC
           855 Q Q P E S P L N E N O R L L L L Q O G L L P H S S C
mRSE
           881 - DRGSPAAPGO - - - - EDGA - - - - -
hAXL
           875 - DRGC PAPPGO - - - - EDGA - - - - -
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### FIGURES A



16 17 18 19 20 21 22 23 24 25 26 27

### FIGURE 8B

#### CHROMOSOME CONTENT OF SOMATIC CELL HYBRID PANEL

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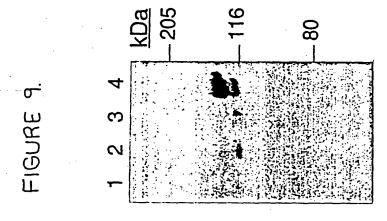


FIGURE 10A.

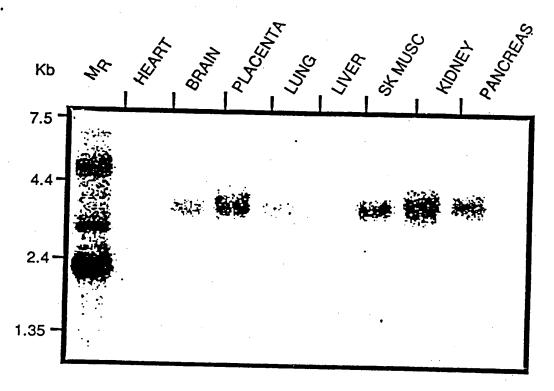


FIGURE 10 B.

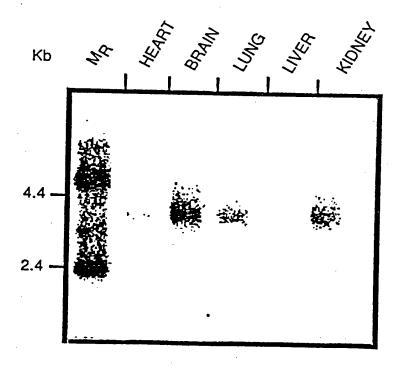


FIGURE 11A

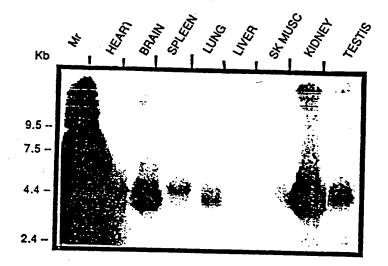


FIGURE 11B

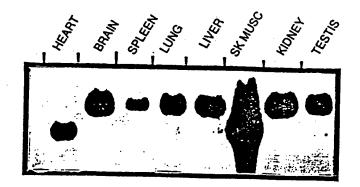


FIGURE 12C MOUSE +ve STRAND FIGURE 12B MOUSE -ve STRAND HUMAN -ve STRAND FIGURE 12A